

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CN2004/001194

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01D3/22, C08F6/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D3, C08F6, B01J19

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, PAJ, CNPAT, CNKI

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN1089270C (Liu Zhaoyan) 21. Aug. 2002 (21-08-2002), See full text and figures	1-10
A	Chinese Utility Model Authorization No. 2209156Y (China Petro-Chemical Corp. & Qingdao Institute of Chemical Technology) 4. Oct. 1995 (04-10-1995), See full text and figures	1-10
A	WO02051606A1 (BAYER AG; KOHLGRUBER K; WEYRICH F) 04. Jul. 2002 (04-07-2002), See full text and figures	1-10
A	US5024728A (DAINIPPON INK & CHEM KK) 18. Jun. 1991 (18-06-1991), See full text and figures	1-10

Further documents are listed in the continuation of Box C.  See patent family annex.

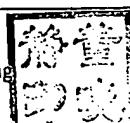
<ul style="list-style-type: none"> <li>* Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier application or patent but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul style="list-style-type: none"> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</li> <li>"&amp;" document member of the same patent family</li> </ul>
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Date of the actual completion of the international search  
10. Jan. 2005

Date of mailing of the international search report  
27 · JAN 2004 (27 · 01 · 2004)

Name and mailing address of the ISA/CN  
6 Xitucheng Rd., Jimen Bridge, Haidian District,  
100088 Beijing, China  
Facsimile No. 86-10-62019451

Authorized officer  
Dong Xiao jing  
Telephone No. (86-10)62084754



**INTERNATIONAL SEARCH REPORT**International application No.  
PCT/CN2004/001194**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>China Synthetic Rubber Industry, Vol. 21, No.3, 15 May 1998, Xie Jianjun, Pan Qinmin, Pan Zuren, Progress on polymer devolatilization, pages 135-141 See full text</p>	1-10

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
**PCT/CN2004/001194**

Patent document Cited in search report	Publication Date	Patent family Member(s)	Publication Date
CN1089270C	21-08-2002	None	None
CN2209156Y	04-10-1995	None	None
WO20051606A1	04-07-2002	US6761797B2 DE10144233A1 US2002092625A1 EP1347868A1 AU2002240838A1 JP2004516172T CN1484575A	13-07-2004 04-07-2002 18-07-2002 01-10-2003 08-07-2002 08-06-2004 24-03-2004
US5024728A	18-06-1991	EP0359432A JP2209902A EP0359432B1 DE68913247E ES2051370T JP2762600B2	21-03-1990 18-06-1991 23-02-1994 31-03-1994 16-06-1994 04-06-1998

## 国际检索报告

PCT/CN2004/001194

## A. 主题的分类

IPC 7 B01D3/22, C08F6/10

按照国际专利分类表(IPC)或者同时按照国家分类和 IPC 两种分类

## B. 检索领域

检索的最低限度文献(标明分类系统和分类号)

IPC 7 B01D3, C08F6, B01J19

包含在检索领域中的除最低限度文献以外的检索文献

在国际检索时查阅的电子数据库(数据库的名称, 和使用的检索词(如使用))

EPODOC, WPI, PAJ, CNPAT, CNKI

## C. 相关文件

类 型*	引用文件, 必要时, 指明相关段落	相关的权利要求
A	CN1089270C (刘兆彦) 21. 8月 2002 (21-08-2002), 参见全文及附图	1-10
A	中国实用新型专利授权公告号 CN2209156Y (中国石油化工总公司, 青岛化工学院) 4. 10月 1995 (04-10-1995), 参见全文及附图	1-10
A	WO20051606A1 (BAYER AG; KOHLGRUBER K; WEYRICH F) 04. 7月 2002 (04-07-2002), 参见全文及附图	1-10
A	US5024728A (DAINIPPON INK & CHEM KK) 18. 6月 1991 (18-06-1991), 参见全文及附图	1-10

 其余文件在 C 栏的续页中列出。 见同族专利附件。

## \* 引用文件的具体类型:

“A” 认为不特别相关的表示了现有技术一般状态的文件

“T” 在申请日或优先权日之后公布, 与申请不相抵触, 但为了理解发明之理论或原理的在后文件

“E” 在国际申请日的当天或之后公布的在先申请或专利

“X” 特别相关的文件, 单独考虑该文件, 认定要求保护的发明不是新颖的或不具有创造性

“L” 可能对优先权要求构成怀疑的文件, 为确定另一篇

“Y” 特别相关的文件, 当该文件与另一篇或者多篇该类文件结合并且这种结合对于本领域技术人员为显而易见时, 要求保护的发明不具有创造性

引用文件的公布日而引用的或者因其他特殊理由而引用的文件

“O” 涉及口头公开、使用、展览或其他方式公开的文件

“&amp;” 同族专利的文件

“P” 公布日先于国际申请日但迟于所要求的优先权日的文件

国际检索实际完成的日期

10. 1月 2005

国际检索报告邮寄日期

27.1月 2005 (27.01.2005)

中华人民共和国国家知识产权局(ISA/CN)  
中国北京市海淀区蓟门桥西土城路 6 号 100088

受权官员

董晓静

传真号: (86-10)62019451

电话号码: (86-10)62084754



## 国际检索报告

国际申请号

PCT/CN2004/001194

## C(续). 相关文件

类型	引用文件, 必要时, 指明相关段落	相关的权利要求
A	合成橡胶工业, 第 21 卷第 3 期, 1998 年 5 月 15 日, 谢建军, 潘勤敏, 潘祖仁, 聚合物系脱挥研究进展, 第 135-141 页 全文	1-10

国际检索报告  
关于同族专利的信息

国际申请号  
PCT/CN2004/001194

检索报告中引用的专利文件	公布日期	同族专利	公布日期
CN1089270C	21-08-2002	无	无
CN2209156Y	04-10-1995	无	无
WO02051606A1	04-07-2002	US6761797B2 DE10144233A1 US2002092625A1 EP1347868A1 AU2002240838A1 JP2004516172T CN1484575A	13-07-2004 04-07-2002 18-07-2002 01-10-2003 08-07-2002 08-06-2004 24-03-2004
US5024728A	18-06-1991	EP0359432A JP2209902A EP0359432B1 DE68913247E ES2051370T JP2762600B2	21-03-1990 18-06-1991 23-02-1994 31-03-1994 16-06-1994 04-06-1998